

J. W. WESTON.

Wheel Hub.

No. 92,238.

Patented July 6, 1869.

Fig. 1.

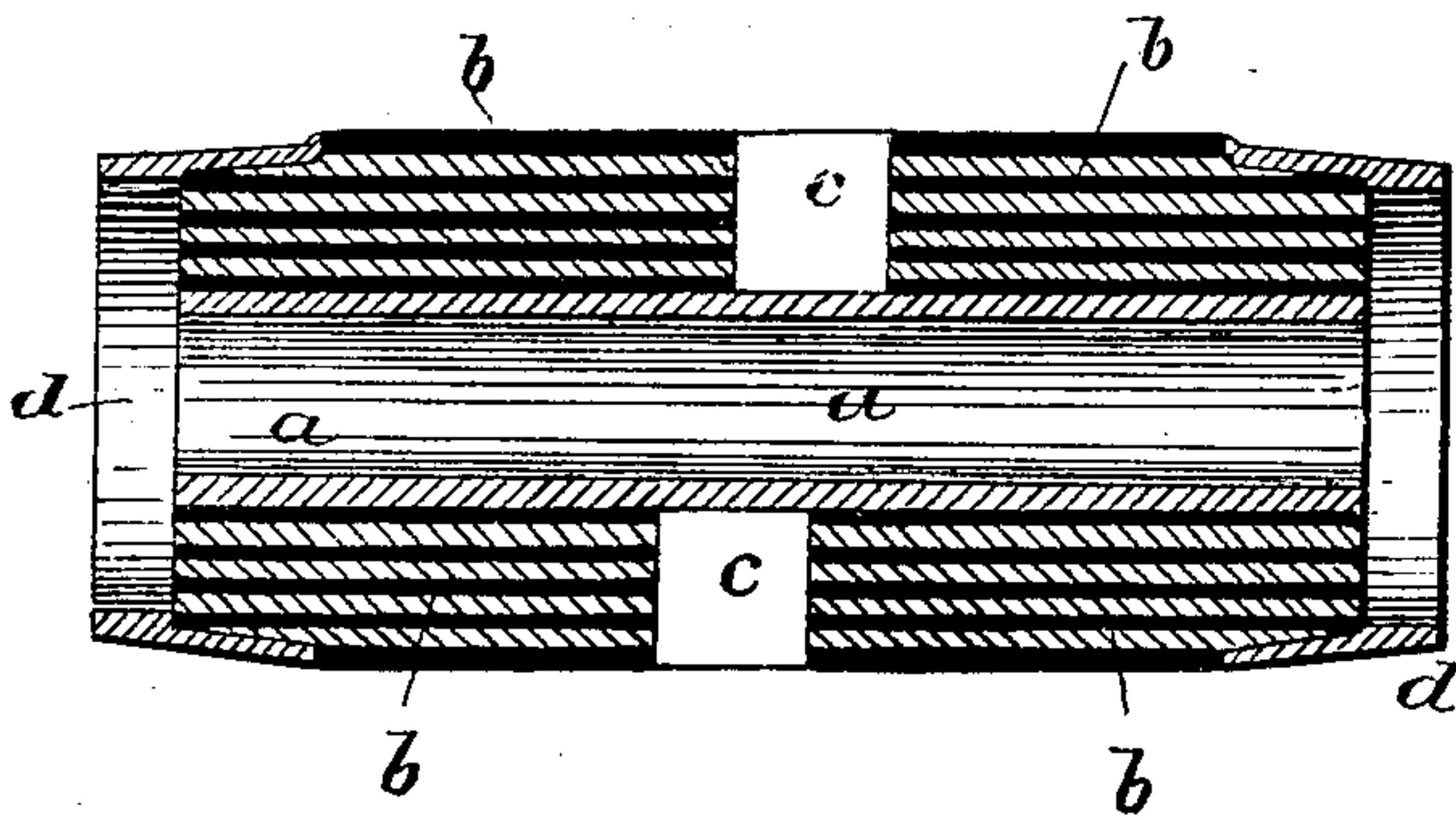


Fig. 2.

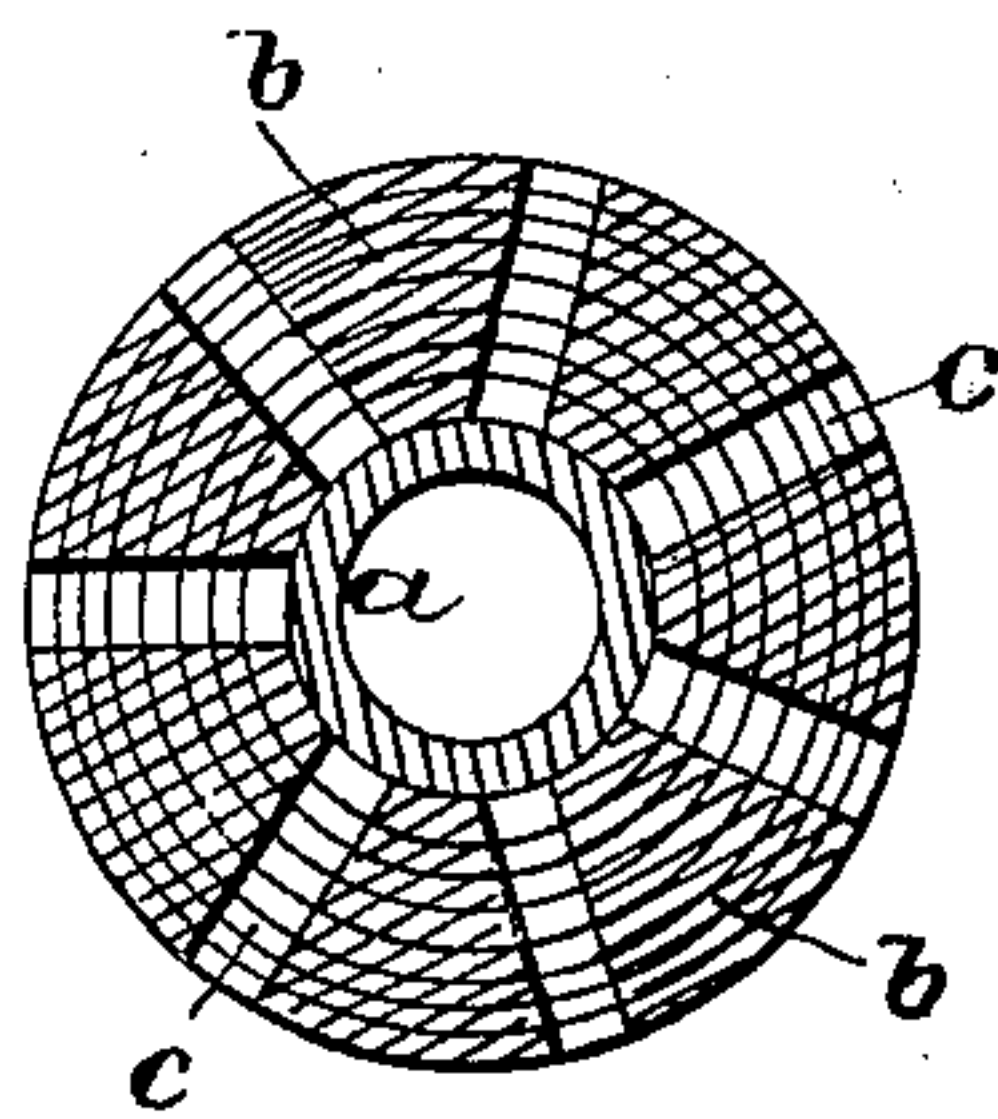
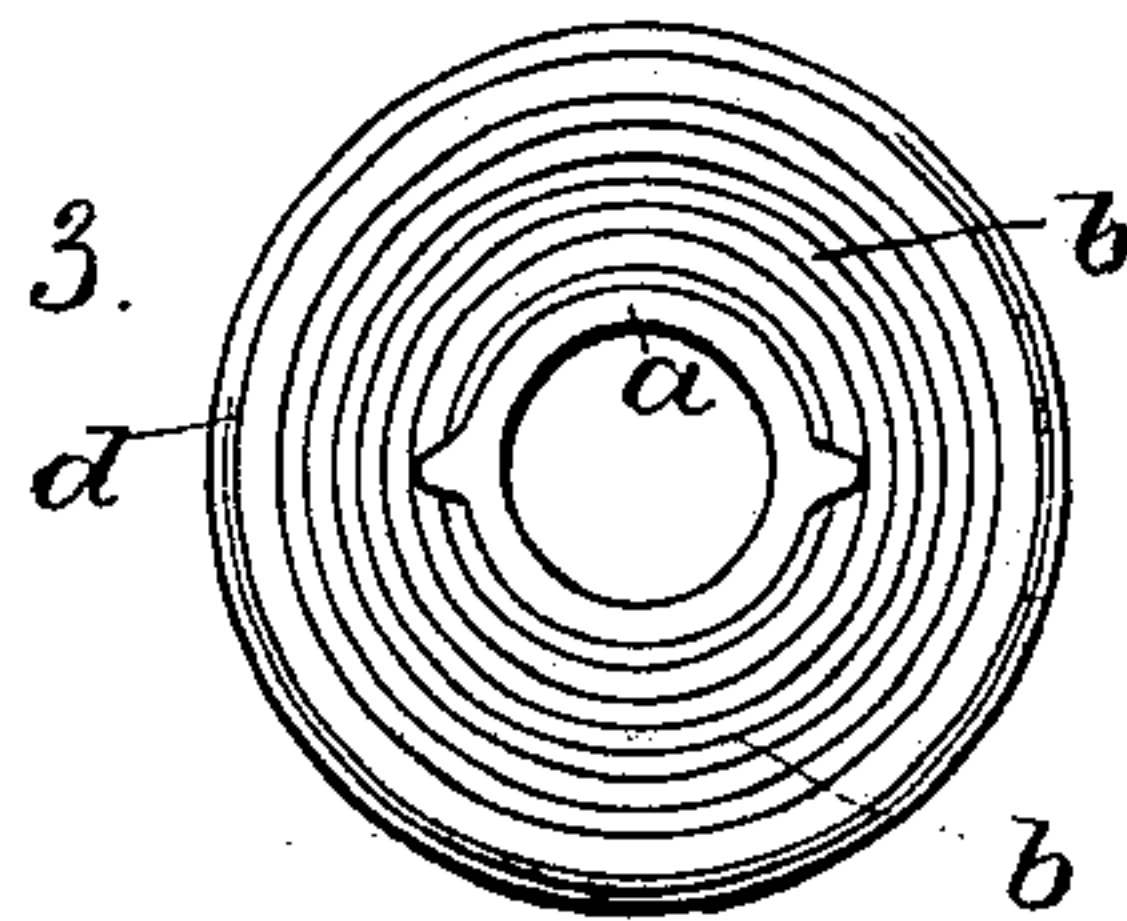


Fig. 3.



Witnesses:

Chas. H. Smith

Geo. T. Pinckney

Inventor:

J. W. Weston

United States Patent Office.

JAMES W. WESTON, OF NEW YORK, N. Y.

Letters Patent No. 92,238, dated July 6, 1869.

IMPROVED CARRIAGE-HUB.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JAMES W. WESTON, of the city and State of New York, have invented and made a new and useful Improvement in Hubs for Wheels; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a longitudinal section of the hub, complete;

Figure 2 is a cross-section of the same; and

Figure 3 is an end view of the hub.

Similar letters denote the same parts.

Hubs for wheels are usually made out of one piece of wood, with the mortises for the spokes and the metal bands at the ends.

In many instances the hubs split longitudinally, in consequence of the shrinkage of the wood and the strain in driving the spokes into the mortises.

My invention consists in a hub made of laminæ of wood rolled up into a tubular form, the direction of the grain in one layer, running different to that in the contiguous layer, so that the grain of the wood is crossed and does not run in one direction, as heretofore. Thereby the strength is greatly increased, and the hub is prevented from splitting.

In the drawing—

a is the tubular metallic pipe receiving the axle.

b b is the wooden body of the hub, made of laminæ of wood rolled up into a cylinder of the necessary size, the layers of wood being united by glue or other cement.

c c are the mortises for the spokes, and

d d are the metallic bands that form the ornamental ends to the hub.

I prefer that the grain of the wood, in the alternate layers, run about at right angles with each other, the one going lengthwise of the hub, the other around the hub; but they may be made so that the grain of the wood runs diagonally in alternate opposite directions.

If desired, a disk or disks may be applied to cover the end grain of the wood at the respective ends of the hub.

What I claim, and desire to secure by Letters Patent, is—

A wheel-hub made of laminæ of wood, in the manner specified, and for the purposes set forth.

In witness whereof, I have hereunto set my signature, this 14th day of April, A. D. 1869.

J. W. WESTON.

Witnesses:

CHAS. H. SMITH,

GEO. T. PINCKNEY.